

Converting Colors

XYZ(13.4678, 13.0428, 42.0707)

Have a look what the booklet for
XYZ(13.4678, 13.0428, 42.0707)
contains.

XYZ(13.4735, 13.1166, 41.8660)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.4735, 13.1166,
41.8660)**

Conversions

Conversions Part 1

Format	Color
Hex	2D66AE
RGB	45, 102, 174
RGB Percent	18%, 40%, 68%
CMY	0.8235, 0.6000, 0.3176
CMYK	0.74, 0.41, 0.00, 0.32
HSL	213°, 59%, 43%
HSV	213°, 74%, 68%
XYZ	13.4735, 13.1166, 41.8660
YIQ	93.1650, -57.0840, 10.3080

Conversions

Conversions Part 2

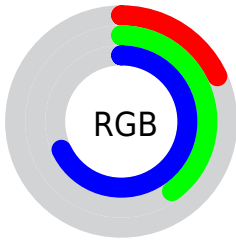
Format	Color
R_{YB}	45, 85, 174
Decimal	2975406
CIE _{Lab}	42.94, 6.66, -43.82
CIE _{LCh}	43, 44.319, 278.644
Yxy	13.1166, 0.1968, 0.1916
Android (android.graphics.Color)	4281165486 (0xFF2D66AE)
YUV	93.1650, 39.8517, -42.2407
Hunter-Lab	36.2168, 3.0266, -43.1863

Details

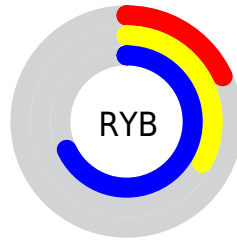
The XYZ color **13.4735, 13.1166, 41.8660** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **24.2917, 21.9127, 5.4327**, and the grayscale version is **10.3631, 10.9028, 11.8731**.

A 20% lighter version of the original color is **31.8585, 31.6838, 79.2994**, and **4.8654, 4.2088, 18.6451** is the 20% darker color. If you saturate the color by 10%, you get **11.9605, 11.0018, 41.5378**, and if you desaturate by 10%, it is **15.4149, 15.6185, 42.2469**.

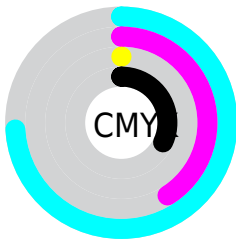
Distribution



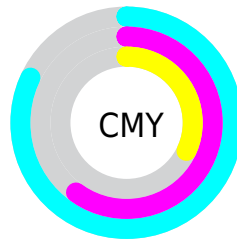
- Red (18%)
- Green (40%)
- Blue (68%)



- Red (18%)
- Yellow (33%)
- Blue (68%)



- Cyan (74%)
- Magenta (41%)
- Yellow (0%)
- Black (32%)



- Cyan (82%)
- Magenta (60%)
- Yellow (32%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.4735, 13.1166, 41.8660 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 13.4735, 13.1166, 41.8660 by changing the saturation by 10% instead.

■ 13.4735, 13.1166,
41.8660

■ 13.4735, 13.1166,
41.8660

207.5072,
211.6636, 369.7104

■ 7.8346, 7.5089,
28.6716

■ 31.7460, 31.5131,
79.2647

■ 4.0402, 3.7823,
18.5891

■ 45.1103, 45.0707,
104.3060

■ 1.7249, 1.5526,
11.1999

■ 61.7806, 62.0470,
134.1335

■ 0.4718, 0.3253,
6.0856

■ 82.1220, 82.8265,
169.1655

■ 0.0000, 0.0000,
2.8276

■ 106.5000,
107.7935, 209.8206

■ 0.0000, 0.0000,
1.0073

135.2800,

■ 0.0000, 0.0000,

137.3324, 256.5175

0.0000

168.8273,
171.8276, 309.6746

■ 13.4735, 13.1166,
41.8660

■ 13.4735, 13.1166,
41.8660

■ 11.9605, 11.0018,
41.5378

■ 15.4149, 15.6185,
42.2469

■ 10.8288, 9.2438,
41.2582

■ 17.8213, 18.5315,
42.6823

■ 10.2854, 8.3468,
41.1137

■ 20.7268, 21.8784,
43.1752

■ 24.1616, 25.6798,
43.7279

■ 28.1533, 29.9547,
44.3427

■ 32.7275, 34.7208,
45.0215

■ 37.9081, 39.9949,
45.7665

■ 43.7176, 45.7930,
46.5794

■ 50.1774, 52.1301,
47.4622

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



10.2387, 13.1166, 39.7108



13.4735, 13.1166, 41.8660



17.0015, 13.1166, 34.4123

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



13.4735, 13.1166, 41.8660



18.2889, 13.1166, 5.5022



7.3241, 13.1166, 8.5005

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



13.4735, 13.1166, 41.8660



24.2917, 21.9127, 5.4327

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



8.8202, 13.1166, 4.0941



13.4735, 13.1166, 41.8660



14.9971, 13.1166, 2.9904

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



13.4735, 13.1166, 41.8660



20.0940, 13.1166, 11.6534



11.5118, 13.1166, 2.6285



7.0650, 13.1166, 17.2783

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



13.4735, 13.1166, 41.8660



18.9099, 13.1166, 26.3787



11.5118, 13.1166, 2.6285



7.6840, 13.1166, 6.5981

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



13.4740, 13.1170, 41.8663



52.4366, 55.7771, 80.6392



19.3684, 32.0903, 21.6822



11.1955, 11.9129, 17.8537



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



13.4740, 13.1170, 41.8663



20.2990, 17.8311, 75.0087



9.9672, 5.6492, 40.6097



7.8592, 8.3178, 10.1440



7.5173, 6.1685, 29.8389



0.2642, 0.2818, 0.8485

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



20.7927, 11.8355, 13.7592



35.0588, 18.2362, 17.6538



31.6630, 38.7375, 8.2917



8.1467, 8.0719, 9.0835



13.6580, 6.9258, 5.8447



0.4078, 0.2038, 0.3090

Previews

White Background



This preview shows how the XYZ color 13.4735, 13.1166, 41.8660 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 13.4735, 13.1166, 41.8660 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

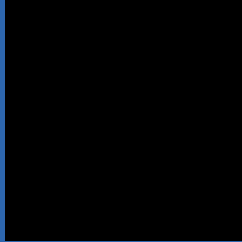
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 13.4735, 13.1166, 41.8660

Background



This preview shows how black text looks on a background with the XYZ color 13.4735, 13.1166, 41.8660.



This preview shows how white text looks on a background with the XYZ color 13.4735, 13.1166,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

13.4735, 13.1166, 41.8660

Protanopia

14.3383, 13.1660, 40.3137

Deuteranopia

13.4301, 13.0942, 41.8640



Tritanopia

9.2454, 12.9688, 20.1051

Trichromacy



Original Color

13.4735, 13.1166, 41.8660

Protanomaly

13.9280, 13.0850, 40.8213

Deuteranomaly

13.4301, 13.0942, 41.8640

Tritanomaly

10.3099, 12.7287, 26.7244

Monochromacy



Original Color

13.4735, 13.1166, 41.8660

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

10.6762, 11.3074, 20.0322

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.4735, 13.1166, 41.8660 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(45, 102, 174)` looks like.

```
.text, #text, p{  
    color:rgb(45, 102, 174)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(45, 102, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 102, 174) }
```

Border

The CSS property to change the border of an element to XYZ 13.4735, 13.1166, 41.8660 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(45, 102, 174) }
```


If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(45, 102, 174) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(45, 102, 174) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 102, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 102, 174);  
box-shadow:4px 4px 4px 4px rgb(45, 102,  
174) }
```

Background

The CSS property to change the background color of an element to XYZ 13.4735, 13.1166, 41.8660 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 102, 174) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(45, 102,  
174) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor